ABSTRACT OF THE DISCLOSURE

The invention provides a solid support for adsorbing a biomolecule. The support comprises a surface coating having a non-nucleotidic polymer tethered to a surface reactive site. The polymer comprises a backbone, terminus, and adsorbing moieties covalently attached to the backbone and capable of adsorbing a biomolecule that can assume a plurality of conformations. The polymer is generally tethered to the surface at its terminus and the backbone exhibits sufficient mobility and flexibility such that a biomolecule adsorbed by the adsorbing moieties can assume a desired conformation for hybridization. Also provided is a process for preparing a surface coating having a functionalized surface.